

# CONTENTS

OF

## THE THIRTEENTH VOLUME.

	PAGE
On Biniodacetic Acid. By W. H. Perkin, F.C.S., and B. F. Duppa, Esq. ....	1
Description of an Hermetically Sealed Barometer. By Richard Adie .....	7
Action of Pentachloride of Phosphorus on Tartaric Acid. By W. H. Perkin, F.C.S., and B. F. Duppa, Esq.....	9
On the Application of Electrolysis to the Detection of the Poisonous Metals in Mixtures containing Organic Matters. By Charles L. Bloxam .....	12
On the Composition of Air from Mount Blanc. By Dr. E. Frankland, F.R.S. ....	22
On Refining Gold when alloyed with Tin or Antimony, so as to render it fit for the purpose of Coinage. By Robert Warrington .....	31
On some Derivatives from the Olefines. By Frederick Guthrie .....	35
On the Crystallized Hydrates of Baryta and Strontia. By Charles L. Bloxam .....	48
Miscellaneous Observations. By A. W. Hofmann, F.R.S. (continued from Vol. x., p. 211) :—	
4. Action of Nitrous Acid upon Nitrophenylene-diamine .....	51
5. Action of Bisulphide of Carbon upon Amylamine .....	60
6. On the use of Pentachloride of Antimony in the Preparation of Chlorine-compounds .....	62
7. On Di-iodide of Methylene .....	65
8. Dibromide of Ethylene .....	67
9. Metamorphosis of Monobrominated Ethylene .....	68
10. Iodide of Ethyl .....	69
11. On the Deportment of Cyanate of Ethyl with Ethylate of Sodium....	70
12. On Glycerin .....	71
13. Dinitrotoluic Acid .....	72
14. On Isatin .....	73
15. Spontaneous Decomposition of Gun-cotton .....	76
16. Experimental illustration of the Composition of Ammonia in Lectures .....	77
17. How to exhibit the Inflammability of Ammonia .....	78
18. Separation of Cadmium from Copper.....	78
19. Separation of Arsenic from Antimony .....	79
20. Analysis of the Saline Water of Christian Malford, near Chippenham	80
21. Spontaneous Decomposition of Chloride of Lime....	84
22. Bisulphide of Carbon in Coal Gas .....	85
23. Remarks on the changes of Gutta Percha under Tropical Influences	87

	PAGE
On the Carbonates of Alumina, Ferric Oxide, and Chromic Oxide. By James Barratt, Esq. ....	90
Proceedings at the Meetings of the Chemical Society.....	92
On certain sources of loss of Precious Metal in some operations of Assaying. By G. H. Makins.....	97
On Bibromosuccinic Acid, and the Artificial Production of Tartaric Acid. By W. H. Perkin, F.C.S., and B. F. Duppa, Esq. ....	102
On the Composition of the Platinocyanides. By Edward A. Hadow.....	106
On the Stibethyls and Stibmethylys. By G. B. Buckton .....	115
On Crystallized Sodium and Potassium. By Charles Edward Long .....	122
On Zinc-methyl. By J. A. Wanklyn .....	124
On some Derivatives from the Olefines. By Frederick Guthrie .....	129
Contribution towards the History of Cinnamic Acid. By David Howard .....	135
Action of Sodium upon Iodide of Methyl mixed with Ether. By J. A. Wanklyn and F. Buckeisen .....	140
On the Composition of the Aqueous Acids of Constant Boiling Point. By Henry Enfield Roscoe .....	146
Proceedings at the Meetings of the Chemical Society .....	165
On Organo-metallic Bodies : a Discourse delivered to the Chemical Society of London. By Dr. E. Frankland.....	177
On Acetoxymetazonic Acid, an Isomer of Hippuric Acid. By G. C. Foster.....	235
On Baudrimont's Protosulphide of Carbon. By Lyon Playfair, C.B., F.R.S. ....	243
Notice of a New Ammonio-chrome-compound. By J. Morland, F.C.S. ....	252
On Circular Polarization : a Discourse delivered to the Members of the Chemical Society of London. By Dr. J. H. Gladstone, F.R.S. ....	254
On Chemical Analysis by Spectrum-observations. By Professors Kirchhoff and Bunsen .....	270
Contributions to the History of the Phosphorus-bases. By A. W. Hofmann, F.R.S. (First Memoir). ....	289
On the Discrepancies in the Statements of Pelouze and F. Mohr respecting the Solubility of Gallotannic Acid in Ether. By Professor Bolley .....	325
On the Colouring Matters of Persian Berries, and on certain general relations of Yellow Vegetable Dyes. By Professor Bolley .....	327
On a hitherto unobserved source of Paraffin. By Professor Bolley .....	329
Note of the Action of Chloride of Ethyl upon Ammonia. By C. E. Groves ....	331
On the Crystalline Form of Metallic Chromium. By Professor Bolley .....	333
On a New Lead-salt, corresponding to Cobalt-yellow. By S. D. Hayes .....	335
On the Electrolytic Test for Arsenic, and on the presence of that Metal in certain Re-agents. By Charles L. Bloxam .....	338
On the Volumetric Relations of Ozone, and the action of the Electrolytic Discharge on Oxygen and other Gases. By Thomas Andrews, F.R.S., and P. J. Taite, M.A. ....	344
Proceedings at the Meetings of the Chemical Society.....	368
Index.....	373

